



**SCIENTIFIC ENVIRONMENTAL
LABORATORIES, INC.**

McLaren Environmental Engineering
980 Atlantic Avenue Suite 100
Alameda, Ca. 94501

Attn: Mr. Walter Loo

June 26, 1989
Lab. #T891472
Rush

**RECEIVED
JUN 28 1989**

McLAREN

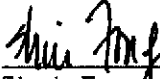
certified analytical report

Sample Received: 6-22-89

Date Collection: 6-21-89

Source: MW-1

<u>Analysis</u>	<u>Results (mg/L)</u>	<u>EPA #</u>	<u>D.L.</u>
Chemical Oxygen Demand	420	410.1	1.0
Total Suspended Solids	12	160.2	1.0
Lead	< 0.05	7420	0.05
Total Dissolved Solids	16000	160.1	1.0



Shui Fong
Director, Water Laboratory

SF:dc

McLaren Analytical Laboratory

Chain of Custody Record

K.P. 1761
No 211564

* 24 hr. rush

Mark Christensen
Mark Christensen

PROJECT DESIGNATION CHIC 3.0

SAMPLES TAKEN BY: Mark Christensen

AREA	SAMPLE LOCATION	DATE	TIME	SAMPLE TYPE			SAMPLE NO.	TYPE CONTAINER(S)	ANALYSIS REQUIRED
				WATER		SOIL			
				COMP	GRAB				
	Trip Blank	5/8/89	12:10		X		118988	VOA	624 601/602 ^{25195 251}
	↓	↓	↓		X		118989	↓	↓ spare
	↓	↓	↓		X		118990	↓	↓ spare
	↓	↓	↓		X		118991	↓	↓ ^{25197 25118} spare
	MW-1 (new)	5/8/89	14:20		X		118992	VOA 601/602	624 24 hr rush
	↓	↓	↓		X		118993	↓	↓ spare
	↓	↓	↓		X		118994	↓	↓ spare
	↓	↓	↓		X		118995	↓	↓ spare

FIELD DISPOSITION: 2 Air Bubbles in 118991

IMMEDIATE DELIVERY

STORAGE REFRIGERATOR ID _____

SECURED YES

FREEZER ID _____

NO

RELINQUISHED BY: Mark Christensen

RECEIVED BY: _____

DATE/TIME
5/8/89 12:45

RELINQUISHED BY: _____

RECEIVED BY: _____

DATE/TIME

RECEIVED FOR LABORATORY BY: Michael N. Neuenburg

MICHAEL N. NEUENBURG

DATE/TIME
5/9/89 10:00

METHOD OF SHIPMENT: Fed. Ex. 2793520726

LABORATORY DISPOSITION:

IMMEDIATE ANALYSIS

STORAGE

REFRIGERATOR ID _____

SECURED

**SAMPLES RECEIVED
IN GOOD CONDITION**

FREEZER ID _____

CABINET ID _____

YES NO

* PRINT NAME AFTER SIGNATURE



McLaren Environmental Engineering

11101 White Rock Road, Rancho Cordova, CA 95670 (916) 638-3696

VOLATILE HALOGENATED ORGANIC COMPOUNDS
EPA METHOD 601 (MODIFIED)

Project: CHIC 2.0

Lab ID: 25197

Sample
Location: MW-1 (New)

Date
Collected: 05/08/89

Sample
Number: 118992-95

Date
Analyzed: 05/09/89

<u>COMPOUND</u>	<u>ANALYTE CONCENTRATION</u> ug/L (ppb)	<u>REPORTING LIMIT</u> ug/L (ppb)
Chloromethane	< 400	400.
Bromomethane	< 400	400.
Vinyl Chloride	< 100	100.
Chloroethane	< 400	400.
Methylene Chloride	< 2000	2000.
Trichlorofluoromethane	< 50	50.
1,1-Dichloroethylene	< 50	50.
1,1-Dichloroethane	< 50	50.
Trans-1,2-Dichloroethylene	< 50	50.
Chloroform	< 50	50.
1,2-Dichloroethane	< 50	50.
1,1,1-Trichloroethane	< 50	50.
Carbon Tetrachloride	< 50	50.
Bromodichloromethane	< 50	50.
1,2-Dichloropropane	< 50	50.
C-1,3-Dichloropropene	< 50	50.
Trichloroethylene	< 640.	50.
Chlorodibromomethane	< 100	100.
1,1,2-Trichloroethane	< 50	50.
t-1,3-Dichloropropene	< 50	50.
Bromoform	< 100	100.
1,1,2,2-Tetrachloroethane	< 100	100.



<u>COMPOUND</u>	<u>ANALYTE CONCENTRATION</u>	<u>REPORTING LIMIT</u>
Tetrachloroethylene	< 50	50.
Chlorobenzene	< 50	50.
1,3-Dichlorobenzene	< 50	50.
1,2-Dichlorobenzene	< 50	50.
1,4-Dichlorobenzene	< 50	50.
Freon 113	< 1000	1000.
Surrogate recovery (percent):		
Bromochloromethane	100%	
Bromofluorobenzene	115%	

Comments: Results as reported are blank corrected.
1:100 dilution used in analysis.

Analyst: A. Putnam Reviewed By: J. M. Hoch Date: 05/16/89
A. Putnam J. M. Hoch
Laboratory Director: J. M. Bartell
J. M. Bartell

**VOLATILE AROMATIC COMPOUNDS
EPA METHOD 602**

Project: CHIC 3.0

Lab ID: 25198

Sample
Location: MW-1 (New)

Date
Collected: 05/08/89

Sample
Number: 118992-95

Date
Analyzed: 05/09/89

<u>COMPOUND</u>	<u>ANALYTE CONCENTRATION</u> ug/L (ppb)	<u>REPORTING LIMIT</u> ug/L (ppb)
Benzene	< 0.5	0.5
Toluene	190.	0.5
Chlorobenzene	< 0.5	0.5
Ethylbenzene	< 0.5	0.5
p-Xylene	50.	0.5
m-Xylene	120.	0.5
o-Xylene	*	0.5
o-Dichlorobenzene	< 0.5	0.5
m-Dichlorobenzene	< 0.5	0.5
p-Dichlorobenzene	< 0.5	0.5
Surrogate recovery (percent)	105%	

Comments: * Coelutes with m-Xylene.
Results as reported are blank corrected.
1:100 dilution used in analysis.

Analyst: A. Putnam
A. Putnam

Reviewed By: J. M. Hoch
J. M. Hoch

Date: 05/16/89

Laboratory Director: J. M. Bartell
J. M. Bartell



VOLATILE HALOGENATED ORGANIC COMPOUNDS
EPA METHOD 601 (MODIFIED)

Project: CHIC 2.0

Lab ID: 25195

Sample
Location: Trip Blank

Date
Collected: 05/08/89

Sample
Number: 118988-91

Date
Analyzed: 05/09/89

<u>COMPOUND</u>	<u>ANALYTE CONCENTRATION</u> ug/L (ppb)	<u>REPORTING LIMIT</u> ug/L (ppb)
Chloromethane	< 4	4.
Bromomethane	< 4	4.
Vinyl Chloride	< 1	1.
Chloroethane	< 4	4.
Methylene Chloride	< 10	10.
Trichlorofluoromethane	< 0.5	0.5
1,1-Dichloroethylene	< 0.5	0.5
1,1-Dichloroethane	< 0.5	0.5
Trans-1,2-Dichloroethylene	< 0.5	0.5
Chloroform	< 0.5	0.5
1,2-Dichloroethane	< 0.5	0.5
1,1,1-Trichloroethane	< 0.5	0.5
Carbon Tetrachloride	< 0.5	0.5
Bromodichloromethane	< 0.5	0.5
1,2-Dichloropropane	< 0.5	0.5
C-1,3-Dichloropropene	< 0.5	0.5
Trichloroethylene	< 0.5	0.5
Chlorodibromomethane	< 1	1.
1,1,2-Trichloroethane	< 0.5	0.5
t-1,3-Dichloropropene	< 0.5	0.5
Bromoform	< 1	1.
1,1,2,2-Tetrachloroethane	< 1	1.



<u>COMPOUND</u>	<u>ANALYTE CONCENTRATION</u>	<u>REPORTING LIMIT</u>
Tetrachloroethylene	< 0.5	0.5
Chlorobenzene	< 0.5	0.5
1,3-Dichlorobenzene	< 0.5	0.5
1,2-Dichlorobenzene	< 0.5	0.5
1,4-Dichlorobenzene	< 0.5	0.5
Freon 113	< 10	10.
Surrogate recovery (percent):		
Bromochloromethane	94%	
Bromofluorobenzene	114%	

Comments: Results as reported are blank corrected.

Analyst: A. Putnam Reviewed By: J. M. Hoch Date: 05/16/89
A. Putnam J. M. Hoch
Laboratory Director: J. M. Bartell
J. M. Bartell

VOLATILE AROMATIC COMPOUNDS
EPA METHOD 602

Project: CHIC 3.0

Lab ID: 25196

Sample
Location: Trip Blank

Date
Collected: 05/08/89

Sample
Number: 118988-91

Date
Analyzed: 05/09/89

<u>COMPOUND</u>	<u>ANALYTE CONCENTRATION</u> ug/L (ppb)	<u>REPORTING LIMIT</u> ug/L (ppb)
Benzene	< 0.5	0.5
Toluene	< 0.5	0.5
Chlorobenzene	< 0.5	0.5
Ethylbenzene	< 0.5	0.5
p-Xylene	< 0.5	0.5
m-Xylene	< 0.5	0.5
o-Xylene	< 0.5	0.5
o-Dichlorobenzene	< 0.5	0.5
m-Dichlorobenzene	< 0.5	0.5
p-Dichlorobenzene	< 0.5	0.5
Surrogate recovery (percent)	130%	

Comments: Surrogate recovery was high; however, since sample has no positive results, data is not adversely affected.

Analyst: A. Putnam Reviewed By: J. M. Hoch Date: 05/16/89
A. Putnam J. M. Hoch

Laboratory Director: J. M. Bartell
J. M. Bartell



McLaren Analytical Laboratory

Chain of Custody Record

L.P. 1699
No 209517

24 hr. mesh

PROJECT DESIGNATION Chc-3.0

SAMPLES TAKEN BY: Brock Wright

AREA	SAMPLE LOCATION	DATE	TIME	SAMPLE TYPE		SAMPLE NO.	TYPE CONTAINER(S)	ANALYSIS REQUIRED		
				WATER				SOIL	624	SPARE
				COMP	GRAB					
	MW-1	4/25/89	1200		X	028517	VOA	624	624	
					X	028518	VOA	624	SPARE	
					X	028519	VOA	624		
					X	028520	VOA	624		
					X	028521	VOA	624		
					X	028522	VOA	624	SPARE	
					X	028523	VOA	624		
					X	028524	VOA	624		

FIELD DISPOSITION: Fed Ex #2030976724 * = Preserved with HCl

IMMEDIATE DELIVERY STORAGE REFRIGERATOR ID _____ SECURED YES
FREEZER ID _____ NO

RELINQUISHED BY: Brock Wright RECEIVED BY: _____ DATE/TIME: 4/25/89 1400

RELINQUISHED BY: _____ RECEIVED BY: _____ DATE/TIME: _____

RECEIVED FOR LABORATORY BY: Michael N. Neuenburg MICHAEL N. NEUENBURG DATE/TIME: 4/24/89 10:00

METHOD OF SHIPMENT: _____

LABORATORY DISPOSITION: IMMEDIATE ANALYSIS STORAGE REFRIGERATOR ID 3 SECURED YES
FREEZER ID _____ CABINET ID _____

**SAMPLES RECEIVED
IN GOOD CONDITION**

* PRINT NAME AFTER SIGNATURE



McLaren Analytical Laboratory

Chain of Custody Record

L.P. 1699
No 209519

24 hr rush

PROJECT DESIGNATION Chic-3.0 SAMPLES TAKEN BY: Brad Wright/Bradley

AREA	SAMPLE LOCATION	DATE	TIME	SAMPLE TYPE			SAMPLE NO.	TYPE CONTAINER(S)	ANALYSIS REQUIRED
				WATER		SOIL			
				COMP	GRAB				
	MW-2	4/25/89	1040		X		028501	VOA	621 ²⁴⁵⁰⁹ 624 (GA)
					X		028502	VOA	621 spare
					X		028503	VOA	621 ↓
					X		028504	VOA	621 ↓
					X		028505	VOA	622 622µ
					X		028506	VOA	622 spare
					X		028507	VOA	622 ↓
					X		028508	VOA	622 ↓

FIELD DISPOSITION: Fed Ex # 2030976726 * preserved with HCL

IMMEDIATE DELIVERY
 STORAGE REFRIGERATOR ID _____ SECURED YES
 FREEZER ID _____ NO

RELINQUISHED BY: Brad Wright RECEIVED BY: _____ DATE/TIME: 4/25/89 1400

RELINQUISHED BY: _____ RECEIVED BY: _____ DATE/TIME: _____

RECEIVED FOR LABORATORY BY: Michael N. Neuenburg MICHAEL N. NEUENBURG DATE/TIME: 4/26/89 10:00

METHOD OF SHIPMENT:

LABORATORY DISPOSITION: IMMEDIATE ANALYSIS **SAMPLES RECEIVED IN GOOD CONDITION** STORAGE REFRIGERATOR ID 3 SECURED FREEZER ID _____ YES CABINET ID _____ NO

* PRINT NAME AFTER SIGNATURE



McLaren Analytical Laboratory

Chain of Custody Record

L.P. 1699
No 209518

24 hr hold

PROJECT DESIGNATION Chic - 3.0 SAMPLES TAKEN BY: Broderick/Broderick

AREA	SAMPLE LOCATION	DATE	TIME	SAMPLE TYPE			SAMPLE NO.	TYPE CONTAINER(S)	ANALYSIS REQUIRED
				WATER		SOIL			
				COMP	GRAB				
	MW-3	4/25/89	1125		X		028509	VOA	001 ²⁴⁵¹⁰ 624 (4)
					X		028510	VOA	001 spare
					X		028511	VOA	001 L
					X		028512	VOA	001 L
					X		028513	VOA	002 *
					X		028514	VOA	002 spare
					X		028515	VOA	002 L
					X		028516	VOA	002 L

FIELD DISPOSITION: FedEx # 2030976724 * : Preserved with HCL
 IMMEDIATE DELIVERY
 STORAGE REFRIGERATOR ID _____ SECURED YES
 FREEZER ID _____ NO

RELINQUISHED BY: Broderick RECEIVED BY: _____ DATE/TIME: 4/25/89 1400
 RELINQUISHED BY: _____ RECEIVED BY: _____ DATE/TIME: _____

RECEIVED FOR LABORATORY BY: Michael N. Neuenburg **MICHAEL N. NEUENBURG** DATE/TIME: 4/26/89 1010
 METHOD OF SHIPMENT: _____

LABORATORY DISPOSITION:
 IMMEDIATE ANALYSIS STORAGE REFRIGERATOR ID 3 SECURED
SAMPLES RECEIVED IN GOOD CONDITION FREEZER ID _____ YES
 CABINET ID _____ NO

* PRINT NAME AFTER SIGNATURE



McLaren Analytical Laboratory

Chain of Custody Record

L.P. 1699
No 209516

24 hr mesh

Brad Wright Bradley

PROJECT DESIGNATION *Chic-3.0*

SAMPLES TAKEN BY: *Brad Wright Bradley*

AREA	SAMPLE LOCATION	DATE	TIME	SAMPLE TYPE		SAMPLE NO.	TYPE CONTAINER(S)	ANALYSIS REQUIRED
				WATER COMP	SOIL GRAB			
	<i>TD Blank</i>	<i>4/25/89</i>	<i>1000</i>		<i>X</i>	<i>028525</i>	<i>VOA</i>	<i>624 (5)</i>
					<i>X</i>	<i>028526</i>	<i>VOA</i>	<i>621 spare</i>
					<i>X</i>	<i>028527</i>	<i>VOA</i>	<i>621 r</i>
					<i>X</i>	<i>028528</i>	<i>VOA</i>	<i>622 *</i>
					<i>X</i>	<i>028529</i>	<i>VOA</i>	<i>622 spare *</i>
					<i>X</i>	<i>028530</i>	<i>VOA</i>	<i>622 r *</i>

FIELD DISPOSITION: *Fe/Ex # 2030976724*

*: preserved with

IMMEDIATE DELIVERY
 STORAGE REFRIGERATOR ID _____
 FREEZER ID _____

SECURED YES
 NO

RELINQUISHED BY: *Brad Wright*

RECEIVED BY: _____

DATE/TIME *4/25/89 1400*

RELINQUISHED BY: _____

RECEIVED BY: _____

DATE/TIME

RECEIVED FOR LABORATORY BY: *Michael N. Neuenburg*

MICHAEL N. NEUENBURG

DATE/TIME *4/26/89 10:00*

METHOD OF SHIPMENT:

LABORATORY DISPOSITION:
 IMMEDIATE ANALYSIS

STORAGE
**SAMPLES RECEIVED
 IN GOOD CONDITION**

REFRIGERATOR ID 3
 FREEZER ID _____
 CABINET ID _____

SECURED YES NO

* PRINT NAME AFTER SIGNATURE



**VOLATILE ORGANICS
MODIFIED EPA METHOD 624**

Project: CHIC-3.0

Lab ID: 24512

Sample Location: MW-1

Date Sampled: 04/25/89

Sample Number: 028517

Date Analyzed: 04/27/89

<u>COMPOUND</u>	<u>ANALYTE CONCENTRATION</u> ug/L (ppb)	<u>REPORTING LIMIT</u> ug/L (ppb)
Chloromethane	< 10	10.
Bromomethane	< 10	10.
Vinyl Chloride	< 10	10.
Chloroethane	< 10	10.
Methylene Chloride	< 25	25.
Acetone	< 25	25.
Carbon Disulfide	< 5	5.
1,1 Dichloroethene	< 5	5.
1,1 Dichloroethane	9.	5.
1,2 Dichloroethene(cis/trans)	9.	5.
Chloroform	< 5	5.
1,2 Dichloroethane	< 5	5.
2 Butanone	< 25	25.
1,1,1 Trichloroethane	< 5	5.
Carbon Tetrachloride	< 5	5.
Bromodichloromethane	< 5	5.
1,2 Dichloropropane	< 5	5.
Trans 1,3 Dichloropropene	< 5	5.
Trichloroethene	< 5	5.
Benzene	< 5	5.
1,1,2 Trichloroethane	< 5	5.
Dibromochloromethane	< 5	5.
Cis 1,3 Dichloropropene	< 5	5.
Bromoform	< 5	5.
4 Methyl 2 Pentanone	< 25	25.
2 Hexanone	< 25	25.
1,1,2,2 Tetrachloroethane	< 5	5.
Tetrachloroethylene	< 10	10.
Toluene	< 5	5.
Chlorobenzene	< 5	5.
Ethyl Benzene	< 5	5.
Styrene	< 5	5.
Total Xylenes	< 5	5.

Analyst: *K. Badal* Reviewed By: *R. L. James* Date: 04/27/89

Laboratory Director: *J. M. Bartell*
J. M. Bartell



Lab ID: 24512

GCMS 624 SURROGATE % RECOVERY

COMPOUND NAME	% RECOVERY	RANGE
S1 = 1,2-Dichloroethane-D4	108	76-114
S2 = Toluene-D8	94	88-110
S3 = 4-Bromofluorobenzene	96	86-115

Comments:



**VOLATILE ORGANICS
MODIFIED EPA METHOD 624**

Project: CHIC-3.0

Lab ID: 24509

Sample Location: MW-2

Date Sampled: 04/25/89

Sample Number: 028501

Date Analyzed: 04/26/89

<u>COMPOUND</u>	<u>ANALYTE CONCENTRATION</u> ug/L (ppb)	<u>REPORTING LIMIT</u> ug/L (ppb)
Chloromethane	< 10	10.
Bromomethane	< 10	10.
Vinyl Chloride	< 10	10.
Chloroethane	< 10	10.
Methylene Chloride	< 25	25.
Acetone	< 25	25.
Carbon Disulfide	< 5	5.
1,1 Dichloroethene	< 5	5.
1,1 Dichloroethane	< 5	5.
1,2 Dichloroethene(cis/trans)	< 5	5.
Chloroform	< 5	5.
1,2 Dichloroethane	< 5	5.
2 Butanone	< 25	25.
1,1,1 Trichloroethane	< 5	5.
Carbon Tetrachloride	< 5	5.
Bromodichloromethane	< 5	5.
1,2 Dichloropropane	< 5	5.
Trans 1,3 Dichloropropene	< 5	5.
Trichloroethene	< 5	5.
Benzene	< 5	5.
1,1,2 Trichloroethane	< 5	5.
Dibromochloromethane	< 5	5.
Cis 1,3 Dichloropropene	< 5	5.
Bromoform	< 5	5.
4 Methyl 2 Pentanone	< 25	25.
2 Hexanone	< 25	25.
1,1,2,2 Tetrachloroethane	< 5	5.
Tetrachloroethylene	< 10	10.
Toluene	< 5	5.
Chlorobenzene	< 5	5.
Ethyl Benzene	< 5	5.
Styrene	< 5	5.
Total Xylenes	< 5	5.

Analyst: *K. Badal* Reviewed By: *R. L. James* Date: 04/27/89

Laboratory Director: *J. M. Bartell*



Lab ID: 24509

GCMS 624 SURROGATE % RECOVERY

COMPOUND NAME	% RECOVERY	RANGE
S1 = 1,2-Dichloroethane-D4	106	76-114
S2 = Toluene-D8	98	88-110
S3 = 4-Bromofluorobenzene	102	86-115

Comments:



VOLATILE ORGANICS
MODIFIED EPA METHOD 624

Project: CHIC-3.0

Lab ID: 24510

Sample Location: MW-3

Date Sampled: 04/25/89

Sample Number: 028509

Date Analyzed: 04/27/89

<u>COMPOUND</u>	<u>ANALYTE CONCENTRATION</u> ug/L (ppb)	<u>REPORTING LIMIT</u> ug/L (ppb)
Chloromethane	< 10	10.
Bromomethane	< 10	10.
Vinyl Chloride	< 10	10.
Chloroethane	< 10	10.
Methylene Chloride	< 25	25.
Acetone	< 25	25.
Carbon Disulfide	< 5	5.
1,1 Dichloroethene	< 5	5.
1,1 Dichloroethane	< 5	5.
1,2 Dichloroethene(cis/trans)	< 5	5.
Chloroform	< 5	5.
1,2 Dichloroethane	< 5	5.
2 Butanone	< 25	25.
1,1,1 Trichloroethane	< 5	5.
Carbon Tetrachloride	< 5	5.
Bromodichloromethane	< 5	5.
1,2 Dichloropropane	< 5	5.
Trans 1,3 Dichloropropene	< 5	5.
Trichloroethene	< 5	5.
Benzene	< 5	5.
1,1,2 Trichloroethane	< 5	5.
Dibromochloromethane	< 5	5.
Cis 1,3 Dichloropropene	< 5	5.
Bromoform	< 5	5.
4 Methyl 2 Pentanone	< 25	25.
2 Hexanone	< 25	25.
1,1,2,2 Tetrachloroethane	< 5	5.
Tetrachloroethylene	< 10	10.
Toluene	< 5	5.
Chlorobenzene	< 5	5.
Ethyl Benzene	< 5	5.
Styrene	< 5	5.
Total Xylenes	< 5	5.

Analyst: K. Badal Reviewed By: R. L. James Date: 04/27/89

Laboratory Director: J. M. Bartell



Lab ID: 24510

GCMS 624 SURROGATE % RECOVERY

COMPOUND NAME	% RECOVERY	RANGE
S1 = 1,2-Dichloroethane-D4	93	76-114
S2 = Toluene-D8	101	88-110
S3 = 4-Bromofluorobenzene	103	86-115

Comments:



**VOLATILE ORGANICS
MODIFIED EPA METHOD 624**

Project: CHIC-3.0

Lab ID: 24511

Sample Location: Trip Blank

Date Sampled: 04/25/89

Sample Number: 028525

Date Analyzed: 04/26/89

<u>COMPOUND</u>	<u>ANALYTE CONCENTRATION</u> ug/L (ppb)	<u>REPORTING LIMIT</u> ug/L (ppb)
Chloromethane	< 10	10.
Bromomethane	< 10	10.
Vinyl Chloride	< 10	10.
Chloroethane	< 10	10.
Methylene Chloride	< 25	25.
Acetone	< 25	25.
Carbon Disulfide	< 5	5.
1,1 Dichloroethene	< 5	5.
1,1 Dichloroethane	< 5	5.
1,2 Dichloroethene(cis/trans)	< 5	5.
Chloroform	< 5	5.
1,2 Dichloroethane	< 5	5.
2 Butanone	< 25	25.
1,1,1 Trichloroethane	< 5	5.
Carbon Tetrachloride	< 5	5.
Bromodichloromethane	< 5	5.
1,2 Dichloropropane	< 5	5.
Trans 1,3 Dichloropropene	< 5	5.
Trichloroethene	< 5	5.
Benzene	< 5	5.
1,1,2 Trichloroethane	< 5	5.
Dibromochloromethane	< 5	5.
Cis 1,3 Dichloropropene	< 5	5.
Bromoform	< 5	5.
4 Methyl 2 Pentanone	< 25	25.
2 Hexanone	< 25	25.
1,1,2,2 Tetrachloroethane	< 5	5.
Tetrachloroethylene	< 10	10.
Toluene	< 5	5.
Chlorobenzene	< 5	5.
Ethyl Benzene	< 5	5.
Styrene	< 5	5.
Total Xylenes	< 5	5.

Analyst: K. Badal

Reviewed By: R. L. James

Date: 04/27/89

Laboratory Director: J. M. Bartell

J. M. Bartell



Lab ID: 24511

GCMS 624 SURROGATE % RECOVERY

COMPOUND NAME	% RECOVERY	RANGE
S1 = 1,2-Dichloroethane-D4	96	76-114
S2 = Toluene-D8	98	88-110
S3 = 4-Bromofluorobenzene	105	86-115

Comments:



McLaren Analytical Laboratory

Chain of Custody Record

LP 1778
No 212051

24 Ha. Rush Project Mgr - Watter Lee

PROJECT DESIGNATION Chic 3.0 SAMPLES TAKEN BY: James Watter - James Lee

AREA	SAMPLE LOCATION	DATE	TIME	SAMPLE TYPE			SAMPLE NO.	TYPE CONTAINER(S)	ANALYSIS REQUIRED
				WATER		SOIL			
				COMP	GRAB				
<u>Good Guys</u>	<u>Top Blank</u>	<u>5/15/09</u>	<u>6:24</u>		X		<u>108081</u>	<u>VOA</u>	<u>624</u> <u>2533</u>
	↓	↓	↓		X		<u>108082</u>		<u>Backup</u>
	↓	↓	↓		X		<u>108083</u>		
	↓	↓	↓		X		<u>108084</u>		
	<u>TW-1</u>	<u>5/16/09</u>	<u>11:15</u>		X		<u>108089</u>		<u>624</u> <u>2533</u>
	↓	↓	↓		X		<u>108090</u>		<u>Backup</u>
	↓	↓	↓		X		<u>108091</u>		<u>94624 Backup</u>
	↓	↓	↓		X		<u>108092</u>		<u>Backup</u>
	<u>TW-2</u>	↓	<u>11:45</u>		X		<u>108093</u>		<u>624</u> <u>2528</u>
	↓	↓	↓		X		<u>108094</u>		<u>Backup</u>

FIELD DISPOSITION:

IMMEDIATE DELIVERY
 STORAGE REFRIGERATOR ID _____ SECURED YES
 FREEZER ID _____ NO

RELINQUISHED BY: <u>James Mactor James Mactor</u>	RECEIVED BY: _____	DATE/TIME <u>5/16/09 5:05</u>
RELINQUISHED BY: <u>S</u>	RECEIVED BY: _____	DATE/TIME _____
RECEIVED FOR LABORATORY BY: <u>SACHARUMAR, P. MADURAI</u>	_____	DATE/TIME <u>5/16/09 5:05</u>
METHOD OF SHIPMENT: _____		

LABORATORY DISPOSITION:

IMMEDIATE ANALYSIS STORAGE REFRIGERATOR ID #3 SECURED
 FREEZER ID _____ YES NO
 CABINET ID _____

* PRINT NAME AFTER SIGNATURE



McLaren Analytical Laboratory

Chain of Custody Record

LP 1778
No 212052

24 Hr. Rush Project Mgr Walter Leo

PROJECT DESIGNATION *Chic 3.0*

SAMPLES TAKEN BY: *James Martin James M*

AREA	SAMPLE LOCATION	DATE	TIME	SAMPLE TYPE			SAMPLE NO.	TYPE CONTAINER(S)	ANALYSIS REQUIRED
				WATER		SOIL			
				COMP	GRAB				
<i>Good Guys</i>	<i>TW-2</i>	<i>5/16/89</i>	<i>11:42</i>		<i>X</i>		<i>108095</i>	<i>VQA</i>	<i>Backup</i>
	↓	↓	↓		<i>X</i>		<i>108096</i>	↓	↓
	<i>Sample Blank</i>	↓	<i>12:55</i>		<i>X</i>		<i>108097</i>	↓	<i>639-2533</i>
	↓	↓	↓		<i>X</i>		<i>108098</i>	↓	<i>Backup</i>
	↓	↓	↓		<i>X</i>		<i>108099</i>	↓	↓
	↓	↓	↓		<i>X</i>		<i>108100</i>	↓	↓

FIELD DISPOSITION:

IMMEDIATE DELIVERY

STORAGE REFRIGERATOR ID _____

SECURED YES

FREEZER ID _____

NO

RELINQUISHED BY:*

James Martin James Martin

RECEIVED BY:*

DATE/TIME
5/16/89 5:05

RELINQUISHED BY:*

RECEIVED BY:*

DATE/TIME

RECEIVED FOR LABORATORY BY:*

SARAJANMAR PASADURA S.R.

DATE/TIME

5/16/89 5:05

METHOD OF SHIPMENT:

LABORATORY DISPOSITION:

IMMEDIATE ANALYSIS

STORAGE

REFRIGERATOR ID *#3*

SECURED

FREEZER ID _____

YES

CABINET ID _____

NO

* PRINT NAME AFTER SIGNATURE



McLaren Environmental Engineering

11101 White Rock Road, Rancho Cordova, CA 95670 (916) 638-3696

**VOLATILE ORGANICS
MODIFIED EPA METHOD 624**

Project: CHIC 3.0

Lab ID: 25335

Sample Location: Good Guys TW-1

Date Sampled: 05/16/89

Sample Number: 108089

Date Analyzed: 05/17/89

<u>COMPOUND</u>	<u>ANALYTE CONCENTRATION</u> ug/L (ppb)	<u>REPORTING LIMIT</u> ug/L (ppb)
Chloromethane	< 10	10.
Bromomethane	< 10	10.
Vinyl Chloride	< 10	10.
Chloroethane	< 10	10.
Methylene Chloride	< 25	25.
Acetone	< 25	25.
Carbon Disulfide	< 5	5.
1,1-Dichloroethene	< 5	5.
1,1-Dichloroethane	< 5	5.
1,2-Dichloroethene(cis/trans)	< 5	5.
Chloroform	< 5	5.
Freon 113	< 5	5.
1,2-Dichloroethane	< 5	5.
2-Butanone	< 25	25.
1,1,1-Trichloroethane	< 5	5.
Carbon Tetrachloride	< 5	5.
Bromodichloromethane	< 5	5.
1,2-Dichloropropane	< 5	5.
trans-1,3-Dichloropropene	< 5	5.
Trichloroethene	< 5	5.
Benzene	47.	5.
1,1,2-Trichloroethane	< 5	5.
Dibromochloromethane	< 5	5.
cis-1,3-Dichloropropene	< 5	5.
Bromoform	< 5	5.
4-Methyl-2-Pentanone	< 25	25.
2-Hexanone	< 25	25.
1,1,2,2-Tetrachloroethane	< 5	5.
Tetrachloroethylene	< 10	10.
Toluene	< 5	5.
Chlorobenzene	< 5	5.
Ethyl Benzene	< 5	5.
Styrene	< 5	5.
Total Xylenes	< 5	5.

Analyst: K. Badal
K. Badal

Reviewed By: R. L. James

Date: 05/17/89

Laboratory Director: J. M. Bartell



Lab ID: 25335

GCMS 624 SURROGATE % RECOVERY

COMPOUND NAME	% RECOVERY	RANGE
S1 = 1,2-Dichloroethane-D4	94	76-114
S2 = Toluene-D8	98	88-110
S3 = 4-Bromofluorobenzene	94	86-115

Comments:



**VOLATILE ORGANICS
MODIFIED EPA METHOD 624**

Project: CHIC 3.0

Lab ID: 25336

Sample Location: Good Guys TW-2

Date Sampled: 05/16/89

Sample Number: 108093

Date Analyzed: 05/17/89

<u>COMPOUND</u>	<u>ANALYTE CONCENTRATION</u>	<u>REPORTING LIMIT</u>
	ug/L (ppb)	ug/L (ppb)
Chloromethane	< 10	10.
Bromomethane	< 10	10.
Vinyl Chloride	< 10	10.
Chloroethane	< 10	10.
Methylene Chloride	< 25	25.
Acetone	< 25	25.
Carbon Disulfide	< 5	5.
1,1-Dichloroethene	< 5	5.
1,1-Dichloroethane	< 5	5.
1,2-Dichloroethene(cis/trans)	< 5	5.
Chloroform	< 5	5.
Freon 113	< 5	5.
1,2-Dichloroethane	< 5	5.
2-Butanone	< 25	25.
1,1,1-Trichloroethane	< 5	5.
Carbon Tetrachloride	< 5	5.
Bromodichloromethane	< 5	5.
1,2-Dichloropropane	< 5	5.
trans-1,3-Dichloropropene	< 5	5.
Trichloroethene	< 5	5.
Benzene	< 5	5.
1,1,2-Trichloroethane	< 5	5.
Dibromochloromethane	< 5	5.
cis-1,3-Dichloropropene	< 5	5.
Bromoform	< 5	5.
4-Methyl-2-Pentanone	< 25	25.
2-Hexanone	< 25	25.
1,1,2,2-Tetrachloroethane	< 5	5.
Tetrachloroethylene	< 10	10.
Toluene	< 5	5.
Chlorobenzene	< 5	5.
Ethyl Benzene	< 5	5.
Styrene	< 5	5.
Total Xylenes	< 5	5.

Analyst: K. Badal
K. Badal

Reviewed By: R. L. James

Date: 05/17/89

Laboratory Director: J. M. Bartell



Lab ID: 25336

GCMS 624 SURROGATE % RECOVERY

COMPOUND NAME	% RECOVERY	RANGE
S1 = 1,2-Dichloroethane-D4	92	76-114
S2 = Toluene-D8	99	88-110
S3 = 4-Bromofluorobenzene	92	86-115

Comments:



**VOLATILE ORGANICS
MODIFIED EPA METHOD 624**

Project: CHIC 3.0

Lab ID: 25334

Sample Location: Good Guys Trip Blank

Date Sampled: 05/15/89

Sample Number: 108081

Date Analyzed: 05/17/89

<u>COMPOUND</u>	<u>ANALYTE CONCENTRATION</u> ug/L (ppb)	<u>REPORTING LIMIT</u> ug/L (ppb)
Chloromethane	< 10	10.
Bromomethane	< 10	10.
Vinyl Chloride	< 10	10.
Chloroethane	< 10	10.
Methylene Chloride	< 25	25.
Acetone	< 25	25.
Carbon Disulfide	< 5	5.
1,1-Dichloroethene	< 5	5.
1,1-Dichloroethane	< 5	5.
1,2-Dichloroethene(cis/trans)	< 5	5.
Chloroform	< 5	5.
Freon 113	< 5	5.
1,2-Dichloroethane	< 5	5.
2-Butanone	< 25	25.
1,1,1-Trichloroethane	< 5	5.
Carbon Tetrachloride	< 5	5.
Bromodichloromethane	< 5	5.
1,2-Dichloropropane	< 5	5.
trans-1,3-Dichloropropene	< 5	5.
Trichloroethene	< 5	5.
Benzene	< 5	5.
1,1,2-Trichloroethane	< 5	5.
Dibromochloromethane	< 5	5.
cis-1,3-Dichloropropene	< 5	5.
Bromoform	< 5	5.
4-Methyl-2-Pentanone	< 25	25.
2-Hexanone	< 25	25.
1,1,2,2-Tetrachloroethane	< 5	5.
Tetrachloroethylene	< 10	10.
Toluene	< 5	5.
Chlorobenzene	< 5	5.
Ethyl Benzene	< 5	5.
Styrene	< 5	5.
Total Xylenes	< 5	5.

Analyst: K. Badal
K. Badal

Reviewed By: R. L. James
R. L. James

Date: 05/17/89

Laboratory Director: J. M. Bartell
J. M. Bartell



Lab ID: 25334

GCMS 624 SURROGATE % RECOVERY

COMPOUND NAME	% RECOVERY	RANGE
S1 = 1,2-Dichloroethane-D4	92	76-114
S2 = Toluene-D8	100	88-110
S3 = 4-Bromofluorobenzene	91	86-115

Comments:



**VOLATILE ORGANICS
MODIFIED EPA METHOD 624**

Project: CHIC 3.0

Lab ID: 25337

Sample Location: Good Guys Sample Blank

Date Sampled: 05/16/89

Sample Number: 108097

Date Analyzed: 05/17/89

<u>COMPOUND</u>	<u>ANALYTE CONCENTRATION</u> ug/L (ppb)	<u>REPORTING LIMIT</u> ug/L (ppb)
Chloromethane	< 10	10.
Bromomethane	< 10	10.
Vinyl Chloride	< 10	10.
Chloroethane	< 10	10.
Methylene Chloride	< 25	25.
Acetone	< 25	25.
Carbon Disulfide	< 5	5.
1,1-Dichloroethene	< 5	5.
1,1-Dichloroethane	< 5	5.
1,2-Dichloroethene(cis/trans)	< 5	5.
Chloroform	< 5	5.
Freon 113	< 5	5.
1,2-Dichloroethane	< 5	5.
2-Butanone	< 25	25.
1,1,1-Trichloroethane	< 5	5.
Carbon Tetrachloride	< 5	5.
Bromodichloromethane	< 5	5.
1,2-Dichloropropane	< 5	5.
trans-1,3-Dichloropropene	< 5	5.
Trichloroethene	< 5	5.
Benzene	< 5	5.
1,1,2-Trichloroethane	< 5	5.
Dibromochloromethane	< 5	5.
cis-1,3-Dichloropropene	< 5	5.
Bromoform	< 5	5.
4-Methyl-2-Pentanone	< 25	25.
2-Hexanone	< 25	25.
1,1,2,2-Tetrachloroethane	< 5	5.
Tetrachloroethylene	< 10	10.
Toluene	< 5	5.
Chlorobenzene	< 5	5.
Ethyl Benzene	< 5	5.
Styrene	< 5	5.
Total Xylenes	< 5	5.

Analyst: K. Badal
K. Badal

Reviewed By: R. L. James

Date: 05/17/89

Laboratory Director: J. M. Bartell



Lab ID: 25337

GCMS 624 SURROGATE % RECOVERY

COMPOUND NAME	% RECOVERY	RANGE
S1 = 1,2-Dichloroethane-D4	94	76-114
S2 = Toluene-D8	98	88-110
S3 = 4-Bromofluorobenzene	95	86-115

Comments:

